10/531342

PATENT COOPERATION TRE



Rec'd PCT/PTO 1 5 APR 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

T	(
Applicant's or agent's file reference 8430 WO F PO/FPI FOR FURTHER		ACTION See Form PCT/IPEA/416				
0430 WOT RO/TRI			COOT GIMT CIVIL EAVATO			
International application No. PCT/EP2003/011453 International filing			Priority date (day/month/year)			
International Patent Classification (IPC) or n	<u>t </u>	003 (16.10.2003)	22 October 2002 (22.10.2002)			
F16H 63/44	auonai classification	and IPC				
Applicant						
	ZF FRIEDRIC	CHSHAFEN AG				
1. This report is the international prelin	ninary examination re	enort established by this	International Preliminary Examining			
Authority under Article 35 and trans	mitted to the applicar	it according to Article 36	international Preliminary Examining 5.			
2. This REPORT consists of a total of	5					
 This REPORT consists of a total of 5 sheets, including this cover sheet. This report is also accompanied by ANNEXES, comprising: 						
K	=	-				
a. (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the						
Administrative Ins	structions).	dinorized by this Author	rity (see Rule 70.16 and Section 607 of the			
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes						
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))						
readable form only, as indicated in the Supplemental Roy Relating to Sequence Listing (see Section 802 of the						
2 commission to high deficit	s)					
4. This report contains indications relating to the following items:						
Box No. I Basis of the report						
Box No. II Priority						
Box No. III Non-establishm						
I I						
Box No. V Reasoned staten						
citations and explanations supporting such statement						
Box No. VI Certain documents cited						
	Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this report				
14 April 2004 (14.04.2004)		17 February 2005 (17.02.2005)				
			Tuary 2003 (17.02.2005)			
Name and mailing address of the IPEA/EP		Authorized officer				
Proximile No.						
Facsimile No.		Telephone No.	No.			

Translation



national application No.
PCT/EP2003/011453

Box N	o. I	Basis of the report					
1. Witt	h regard erwise i	d to the language, this report is based on the international application	on in the language in which it was filed, unless				
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:						
		international search (under Rules 12.3 and 23.1(b))					
l		publication of the international application (under Rule 12.4)					
		international preliminary examination (under Rules 55.2 and/or 55	j.3)				
Jurn	usnea to l are not	d to the elements of the international application, this report is to the receiving Office in response to an invitation under Article 14 transact to this report):	based on (replacement sheets which have been are referred to in this report as "originally filed"				
	I	international application as originally filed/furnished escription:					
KA	une de pages	•	*** ** ***				
	pages		, as originally filed/furnished				
1	pages						
	the cla		only on				
צא	pages		as originally filed/firmished				
l	pages		, as originally filed/furnished nended (together with any statement) under Article 19				
İ	pages'	, uo un					
1	pages'						
	the dr	rawings:					
-	pages		, as originally filed/furnished				
	pages*	* received by this Auth					
	pages*						
	a sequ	uence listing and/or any related table(s) – see Supplemental Box Rel					
			anng to boqueroe Disting.				
3.	The a	mendments have resulted in the cancellation of:	•				
		the description, pages	•				
ı	=	the eleine Man					
	==						
		the drawings, sheets/figs					
		the sequence listing (specify):					
	Ш,	any table(s) related to sequence listing (specify):					
4. This report has been established as if (some of) the amendments annexed to this report and listed below had no made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplement (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs							
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
		asy wastely seemed to be a seemed seemed (opensyy).					
* If iten	n 4 appi	lies, some or all of those sheets may be marked "superseded."					

YES

NO

1-11

v. —	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	1-11	YES			
		Claims		NO			
	Inventive step (IS)	Claims	1-11	YES			
		Claims		NO			

2. Citations and explanations

Industrial applicability (IA)

Reference is made to the following documents:

Claims

Claims

D1: US-A-1 887 943

D2: DE 44 22 900 A

D3: EP-A-0 541 035

D4: EP-A-0 595 496

D5: US-A-2 582 895.

1. Novelty of independent claim 1

Document D1, which is considered the closest prior art, discloses and describes (the references between parentheses relate to D1):

a gear-shift device for a multi-speed vehicle transmission (page 1, lines 1-8) having a main transmission part and at least one group transmission part (page 2, lines 55-56), which has gear-shift means (29, 30) for actuating gear-shift elements in the main transmission part and gear-shift elements for actuating gear-shift elements in the group transmission part (page 1, lines 57-64), and wherein the gear-shift means for actuating the gear-shift elements in the main transmission part

(page 2, lines 41-44) also actuate the gear-shift elements in the group transmission part (page 2, line 110, to page 3, line 9).

The subject matter of claim 1 therefore differs from the known gear-shift device in that the gear-shift means have a space in which an element of the gear-shift means that actuates the gear-shift elements can be moved in the direction of a gear-shift movement whilst the desired gear-shift element is being selected.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

Inventive step of independent claim 1

The problem to be solved by the present invention is therefore understood to be that of developing a multispeed transmission according to the preamble of the independent claim in such a way that a gear-shift element of the transmission can be used as an integrated initial gear-shift element, while at the same time reducing structural complexity and offering advantageous gear steps and more overall gear ratios.

The solution to this problem proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) because the combination of features contained in claim 1 does not appear to be known from or suggested by the available prior art.

Industrial applicability

The subject matter of claim 1 also appears to meet the requirements of PCT Article 33(4), since it can be made

and used at least in the field of motor vehicle technology.

4. Dependent claims

Dependent claims 2-11, which concern further developments of the invention according to claim 1, likewise appear to meet the requirements of PCT Article 33(2) to (4).

5. Observation

Contrary to PCT Rule 5.1(a)(ii), the description does not cite document D1 or indicate the relevant prior art disclosed therein.